

1-4. (CANCELED)

5. (NEW) A bevel gear transmission without shims, for a controllable wheel of a service vehicle, the transmission comprising a one-piece housing to confine a bevel gearset, a crown gear, a plurality of bearing borings for bearings of a bevel pinion gear shaft, a spur gear stage, which precedes the bevel gearset, and drives the pinion gear shaft, the crown gear is supported by bearings in the housing by a UniPack bearing, and in that the housing is constructed as one-piece and fully confines the bevel gearset and the spur gearing, and the bevel gear transmission possesses a sealing cover, which covers an opening of the housing in an area of the spur gearing, the sealing cover (2) is placed at a location, at which vertical bearing borings (3, 4) for the bearings (5, 6) of the bevel pinion gear shaft (7) are to be made, and said sealing cover is provided with a circumferential protrusion (8), which allows an appropriately dimensioned tool to be vertically introduced into the one-piece housing (1) for exact boring of precise, close tolerance bearing borings for the tapered pinion gear shafts (A, B), the bearing boring for the bevel pinion gear shaft can be made in said housing completely in a jig.

6. (NEW) The bevel gear transmission according to claim 5, wherein a width tolerance of the UniPack bearing (9) is so limited, that it, together with dimensions (EMBT) of the crown gear falls into an acceptable tolerance window, which advantage causes use of a shim to be redundant.

7. (NEW) The bevel gear transmission according to claim 5, wherein a tolerance window of a circumferential back lash is so enlarged, that during an assembly, when consideration is given to proper tolerances, fabrication of individual components results in an assembly which is procedure safe and within limits of specified mounted dimensioning.

8. (NEW) A bevel gear transmission without shims, for a controllable wheel of a service vehicle, the transmission comprising;

a one-piece housing to confine a bevel gearset, a crown gear, a plurality of bearing borings for bearings of a bevel pinion gear shaft, and a spur gear stage, which precedes the bevel gearset, and drives the pinion gear shaft,

the crown gear is supported in the housing by a UniPack bearing, the housing fully confines the bevel gearset and the spur gearing;

a sealing cover of the bevel gear transmission covers an opening of the housing in an area of the spur gearing, the sealing cover (2) is placed at a location on the housing at which vertical bearing borings (3, 4) for the bearings (5, 6) of the bevel pinion gear shaft (7) are to be made, and the sealing cover is provided with a circumferential protrusion (8), for allowing an appropriately dimensioned tool to be vertically introduced into the housing (1) for exact boring of precise, close tolerance bearing borings for the tapered pinion gear shafts (A, B), the bearing boring for the bevel pinion gear shaft can be made in the housing completely in a jig.